CLAIMS

- A sealing gasket for closure, made of a polyurethane
 elastomer obtained by reacting the following (A), (B) and
 (C):
- (A) a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate,
- (B) a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, and
 - (C) a glycerin fatty acid ester having hydroxyl group(s).
- 2. A sealing gasket for closure according to Claim 1, wherein the (A) is a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate according to a uretdione-forming reaction, an isocyanurate-forming reaction and/or a urethanization reaction.
- 3. A sealing gasket for closure according to Claim 1, wherein the (A) is a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate
 25 according to an isocyanurate-forming reaction and/or a
 - 4. A sealing gasket for closure according to Claim 1, wherein the (B) is a polyol component having a hydroxyl

urethanization reaction.

value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, consisting of one or more high-molecular polyol(s).

- 5. A sealing gasket for closure according to Claim 1, wherein the (B) is a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, consisting of a mixture of a high-molecular polyol and a low-molecular polyol.
- 6. A sealing gasket for closure according to Claim 1, wherein the polyurethane elastomer, when subjected to a retort treatment of 120°C x 30 minutes using 10 ml, per g of the polyurethane elastomer, of water, gives an extract showing a potassium permanganate consumption of 30 ppm or less.
- 7. A sealing gasket for closure according to Claim 1,

 wherein the polyurethane elastomer has a JIS A hardness of

 10 to 70, a tensile strength of 1 to 40 MPa and a

 compression set of 0.1 to 60%.
 - 8. A process for producing a closure, which comprises reacting the following (A), (B) and (C) at the inner side of a closure to synthesize a polyurethane elastomer in such a state that the polyurethane elastomer is integrated with the closure:

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- (A) a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate,
- (B) a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, and

- (C) a glycerin fatty acid ester having hydroxyl group(s).
- 9. A process for producing a closure according to Claim 8, wherein the (A) is a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate according to a uretdione-forming reaction, an isocyanurate-forming reaction and/or a urethanization reaction.
- 10 10. A process for producing a closure according to Claim 8, wherein the (A) is a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate according to an isocyanurate-forming reaction and/or a urethanization reaction.
 - 11. A process for producing a closure according to Claim 8, wherein the (B) is a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, consisting of one or more high-molecular polyol(s).

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- 12. A process for producing a closure according to Claim 8, wherein the (B) is a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, consisting of a mixture of a high-molecular polyol and a low-molecular polyol.
 - 13. A process for producing a closure according to Claim 8, wherein the polyurethane elastomer, when subjected to a retort treatment of 120°C x 30 minutes using 10 ml, per q

of the polyurethane elastomer, of water, gives an extract showing a potassium permanganate consumption of 30 ppm or less.

- 14. A process for producing a closure according to Claim 8, wherein the polyurethane elastomer has a JIS A hardness of 10 to 70, a tensile strength of 1 to 40 MPa and a compression set of 0.1 to 60%.
 - 15. A process for producing a closure, which comprises lining the inner side of a closure with the following (A),
- 10 (B) and (C) and then reacting the (A), the (B) and the (C) at 150 to 240°C for 20 to 200 seconds to synthesize a polyurethane elastomer in such a state that the polyurethane elastomer is integrated with the closure:
 - (A) a polyisocyanate component having an isocyanate group content of 5 to 38% by weight and average 2 to 3 functional groups, obtained by modifying an aliphatic isocyanate and/or an alicyclic isocyanate,
 - (B) a polyol component having a hydroxyl value of 20 to 350 mgKOH/g and average 2 to 3 functional groups, and
- (C) a glycerin fatty acid ester having hydroxyl group(s).

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16. A process for producing a closure according to Claim
15, wherein the (A) is a polyisocyanate component having an
isocyanate group content of 5 to 38% by weight and average
2 to 3 functional groups, obtained by modifying an
aliphatic isocyanate and/or an alicyclic isocyanate

according to a uretdione-forming reaction, an isocyanurateforming reaction and/or a urethanization reaction.

- 17. A process for producing a closure according to Claim
 15, wherein the (A) is a polyisocyanate component having an
 isocyanate group content of 5 to 38% by weight and average
 2 to 3 functional groups, obtained by modifying an
 aliphatic isocyanate and/or an alicyclic isocyanate
 according to an isocyanurate-forming reaction and/or a
 urethanization reaction.
- 18. A process for producing a closure according to Claim
 15, wherein the (B) is a polyol component having a hydroxyl
 10 value of 20 to 350 mgKOH/g and average 2 to 3 functional
 groups, consisting of one or more high-molecular polyol(s).
 19. A process for producing a closure according to Claim
 15, wherein the (B) is a polyol component having a hydroxyl
 value of 20 to 350 mgKOH/g and average 2 to 3 functional
 15 groups, consisting of a mixture of a high-molecular polyol
 and a low-molecular polyol.
 - 20. A process for producing a closure according to Claim 15, wherein the polyurethane elastomer, when subjected to a retort treatment of 120°C x 30 minutes using 10 ml, per g of the polyurethane elastomer, of water, gives an extract showing a potassium permanganate consumption of 30 ppm or less.

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21. A process for producing a closure according to Claim
15, wherein the polyurethane elastomer has a JIS A
25 hardness of 10 to 70, a tensile strength of 1 to 40 MPa and
a compression set of 0.1 to 60%.